UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/828,417	04/21/2004	Hyeong-seok Ha	Q80321	4536	
23373 SUGHRUE MI	7590 02/20/200 ON, PLLC	EXAMINER			
2100 PENNSY	LVANIA AVENUE, N	PHILIPPE, GIMS S			
SUITE 800 WASHINGTOI	N, DC 20037	ART UNIT	PAPER NUMBER		
			2621		
		MAIL DATE	DELIVERY MODE		
			02/20/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Occurrence		A	Application No.		Applicant(s)				
			10/828,417		HA ET AL.				
Office Action Summary			Examiner		Art Unit				
		G	Gims S. Philippe		2621				
Period fo	- The MAILING DATE of this commun r Reply	ication appea	rs on the cover s	heet with the co	orrespondence ac	ldress			
WHIC - Exten after 9 - If NO - Failur Any re	DRTENED STATUTORY PERIOD F HEVER IS LONGER, FROM THE M sions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comr period for reply is specified above, the maximum st e to reply within the set or extended period for reply sply received by the Office later than three months a d patent term adjustment. See 37 CFR 1.704(b).	MAILING DAT s of 37 CFR 1.136(a nunication. atutory period will a will, by statute, ca	E OF THIS CON a). In no event, howeve apply and will expire SIX use the application to be	IMUNICATION r, may a reply be time ((6) MONTHS from the decome ABANDONED	lely filed he mailing date of this of (35 U.S.C. § 133).				
Status									
1) 又	Responsive to communication(s) file	ad on 12 Janu	Jany 2009						
′=	Responsive to communication(s) filed on <u>12 January 2009</u> . This action is FINAL . 2b)⊠ This action is non-final.								
<i>'</i> =		<i>,</i> —		al matters, pro:	secution as to the	e merits is			
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
	on of Claims	·	•	·					
-									
	Claim(s) <u>1-20 and 22-30</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
·	5)∭ Claim(s) is/are allowed. 6)⊠ Claim(s) <u>1-20 and 22-30</u> is/are rejected.								
· ·	Claim(s) <u>1-20 and 22-30</u> is/are reject Claim(s) is/are objected to.	ieu.							
	Claim(s) is/are objected to: Claim(s) are subject to restric	ction and/or e	lection requirem	ant					
0)	Ciaini(s) are subject to restric	Stion and/or e	iection requireme	511L.					
Application	on Papers								
9) 🗌 🗆	The specification is objected to by th	e Examiner.							
10)[The drawing(s) filed on is/are:	: a) <mark>∏</mark> accept	ted or b)∏ objed	ted to by the E	xaminer.				
	Applicant may not request that any obje	ction to the dra	awing(s) be held in	abeyance. See	37 CFR 1.85(a).				
	Replacement drawing sheet(s) including	the correction	is required if the o	drawing(s) is obj	ected to. See 37 C	FR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority u	nder 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
2) Notice 3) Inform	(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (Fation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	PTO-948)	5) No	terview Summary (per No(s)/Mail Da otice of Informal Pa her:	te				

Art Unit: 2621

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on January 12, 2009 has been entered.
- 2. Applicant's response received on August 8, 2008 has been fully considered and entered, but the arguments are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

4. Claims 1, 8, 14 and 24 are rejected under 35 U.S.C. 101 as not falling within one of the four categories of inventions.

With respect to claim 1, 8, 14 and 24, Supreme Court precedent and recent Federal Circuit decision indicate that a statutory "process" under 35 U.S.C. 101 must (1) be tied to another statutory category (such as a particular apparatus), or (2) transform

Art Unit: 2621

underlying subject matter (such as an article or material) to a different state or thing.

While the instant claim recites a series of steps or acts to be performed, the claim neither transform underlying subject matter nor is positively tied to another statutory category that accomplishes the claimed method steps, and therefore does not qualify as a statutory process.

For example in claim 1, the method of determining a reference picture for blocks including steps of preparing and determining, is of sufficient breadth that it would be reasonably interpreted as a series of steps completely performed mentally, verbally or without a machine.

The applicant has provided no explicit and deliberate definition of assigning, acquiring and selecting to limit the steps of selecting the reference field picture.

Claims 2-7, 9-13, 15-23 and 25-26 are rejected by dependency to claim 1.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Art Unit: 2621

6. Claims 1, 7-10, 13-17, 20-21, 24-25, 27 and 29 are rejected under 35 U.S.C. 102(e) as being anticipated by Wu et al. (US Patent Application Publication no. 2006/0193387 A1).

Regarding claim 1, Wu discloses a method of determining a reference picture for blocks constituting a current picture (See Wu's Abstract), the method comprising preparing tag information describing a plurality of pictures (See Wu paragraph [0009]; and determining one of the plurality of pictures to be the reference picture by referring to the tag information (See Wu paragraph [0009, and 0039]), wherein a motion estimation for the blocks constituting a current picture is performed by using the determined reference picture (See We paragraphs [0032, and 0039-0042]).

As per claims 8-9, 14-15, 21, 24, 27 and 29 Wu discloses a method and apparatus for decoding a bitstream having encoded moving picture data, the apparatus comprising a memory unit which stores a reference picture, wherein the reference picture is obtained by performing a motion estimation process on blocks constituting a portion of a current picture by using pictures indicated by a reference index list (See Wu fig. 6, items 610, 611, and 612, and paragraph [0009]), determining a reference picture based on a result of the motion estimation process, performing a monitoring process on tag information attached to the determined reference picture, and determining a reference picture for blocks constituting another portion of the current picture based on a result of the monitoring process, wherein the current picture constitutes the encoded moving picture

Art Unit: 2621

data (See We paragraphs [0032, and 0039-0042]); a motion vector decoding unit which decodes the motion vector extracted from the bitstream; and a motion compensation unit which performs a motion compensation process by using a reference picture read from the memory and a motion vector provided by the motion vector decoding unit (See Wu paragraph [0033]).

As per claim 10, 7, 25, most of the limitations of these claims have been noted in the above rejection of claims 8, 22 and 24. In addition, Wu further provides reference pictures indicating big motion or global change (See [0011]).

As per claims 13, 16 and 20, most of the limitations of these claims have been noted in the above rejection of claim 11. In addition, Wu' step of selecting the potential key frames along with the step of generating global motion signals will show the picture residual error (See figs. 1 and 4).

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

8. Claims 2-3, 5-6, 10-12, 17-19, 26, 28 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wu et al. (US Patent Application Publication no. 2006/0193387 A1) in view Gelissen (US Patent Application Publication no. 2005/0114887 A1).

Regarding claims 2-3, 5-6, 10-12, 17-19, 26, 28 and 30, most of the limitations of these claims have been noted in the above rejection of claims 1, 8, 14, 24, 27 and 30.

It is noted that although Wu suggests performing a motion estimation and determining reference picture (See Wu paragraph [0043, lines 1-7]), It is silent about the priority picture assignment as claimed.

However, Gelissen suggests assigning priority to a picture based upon at least the tag information (See Gelissen paragraphs [0018], [0032, lines 7-24], [0033, lines 4-8]).

Therefore, it is considered obvious that one skilled in the art at the time of the invention would recognize the advantage of modifying Wu's motion estimation step by incorporating Gelissen's step of assigning priority to a picture based upon at least the tag information. The motivation for performing such a modification in Wu is to use parameters to prioritize in order to control the performance of scalable decoders as taught by Gelissen (See Gelissen [0033]).

Art Unit: 2621

9. Claims 22-23 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gims S. Philippe whose telephone number is (571) 272-7336. The examiner can normally be reached on M-F (10:30-7:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on (571) 272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Gims S Philippe Primary Examiner Art Unit 2621

Art Unit: 2621

/G. S. P./ /Gims S Philippe/ Primary Examiner, Art Unit 2621